

SEQUENCE LISTING

<110> YOUNG, RYLAND  
STRUCK, DOUGLAS  
ROOF, WILLIAM  
BERNHARDT, THOMAS  
WANG, ING-NANG

<120> ANTIBIOTICS BASED UPON BACTERIOPHAGE LYSIS PROTEINS

<130> P01886US1;10020446

<140> 09/626,036  
<141> 2000-07-27

<150> 60/146,455  
<151> 1999-07-30

<160> 2

<170> PatentIn version 3.0

<210> 1  
<211> 91  
<212> PRT  
<213> Bacteriophage phi-X174

<400> 1

Met Val Arg Trp Thr Leu Trp Asp Thr Leu Ala Phe Leu Leu Leu Leu  
1 5 10 15

Ser Leu Leu Leu Pro Ser Leu Leu Ile Met Phe Ile Pro Ser Thr Phe  
20 25 30

Lys Arg Pro Val Ser Ser Trp Lys Ala Leu Asn Leu Arg Lys Thr Leu  
35 40 45

Leu Met Ala Ser Ser Val Arg Leu Lys Pro Leu Asn Cys Ser Arg Leu  
50 55 60

Pro Cys Val Tyr Ala Gln Glu Thr Leu Thr Phe Leu Leu Thr Gln Lys  
65 70 75 80

Lys Thr Cys Val Lys Asn Tyr Val Arg Lys Glu  
85 90

<210> 2  
<211> 419  
<212> PRT  
<213> Escherichia coli

<400> 2

Met Asp Lys Phe Arg Val Gln Gly Pro Thr Glu Leu Gln Gly Glu Val  
1 5 10 15

Thr Ile Ser Gly Ala Lys Asn Ala Ala Leu Pro Ile Leu Phe Ala Ala  
20 25 30

Leu Leu Ala Glu Glu Pro Val Glu Ile Gln Asn Val Pro Lys Leu Lys

35	40	45
Asp Val Asp Thr Ser Met Lys Leu Leu Ser Gln Leu Gly Ala Lys Val		
50	55	60
Glu Arg Asn Gly Ser Val His Ile Asp Ala Arg Asp Val Asn Val Phe		
65	70	75
Cys Ala Pro Tyr Asp Leu Val Lys Thr Met Arg Ala Ser Ile Trp Ala		
85	90	95
Leu Gly Pro Leu Val Ala Arg Phe Gly Gln Gly Gln Val Ser Leu Pro		
100	105	110
Gly Gly Cys Thr Ile Gly Ala Arg Pro Val Asp Leu His Ile Ser Gly		
115	120	125
Leu Glu Gln Leu Gly Ala Thr Ile Lys Leu Glu Glu Gly Tyr Val Lys		
130	135	140
Ala Ser Val Asp Gly Arg Leu Lys Gly Ala His Ile Val Met Asp Lys		
145	150	155
Val Ser Val Gly Ala Thr Val Thr Ile Met Cys Ala Ala Thr Leu Ala		
165	170	175
Glu Gly Thr Thr Ile Ile Glu Asn Ala Ala Arg Glu Pro Glu Ile Val		
180	185	190
Asp Thr Ala Asn Phe Leu Ile Thr Leu Gly Ala Lys Ile Ser Gly Gln		
195	200	205
Gly Thr Asp Arg Ile Val Ile Glu Gly Val Glu Arg Leu Gly Gly Gly		
210	215	220
Val Tyr Arg Val Leu Pro Asp Arg Ile Glu Thr Gly Thr Phe Leu Val		
225	230	235
240		
Ala Ala Ala Ile Ser Arg Gly Lys Ile Ile Cys Arg Asn Ala Gln Pro		
245	250	255
Asp Thr Leu Asp Ala Val Leu Ala Lys Leu Arg Asp Ala Gly Ala Asp		
260	265	270
Ile Glu Val Gly Glu Asp Trp Ile Ser Leu Asp Met His Gly Lys Arg		
275	280	285
Pro Lys Ala Val Asn Val Arg Thr Ala Pro His Pro Ala Phe Pro Thr		
290	295	300
Asp Met Gln Ala Gln Phe Thr Leu Leu Asn Leu Val Ala Glu Gly Thr		
305	310	315
320		
Gly Phe Ile Thr Glu Thr Val Phe Glu Asn Arg Phe Met His Val Pro		
325	330	335
Glu Leu Ser Arg Met Gly Ala His Ala Glu Ile Glu Ser Asn Thr Val		
340	345	350
Ile Cys His Gly Val Glu Lys Leu Ser Gly Ala Gln Val Met Ala Thr		
355	360	365

Asp Leu Arg Ala Ser Ala Ser Leu Val Leu Ala Gly Cys Ile Ala Glu  
370 375 380

Gly Thr Thr Val Val Asp Arg Ile Tyr His Ile Asp Arg Gly Tyr Glu  
385 390 395 400

Arg Ile Glu Asp Lys Leu Arg Ala Leu Gly Ala Asn Ile Glu Arg Val  
405 410 415

Lys Gly Glu